BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Improvements to Roads and drains at Ganesha Layout Roads in Ward No. 11, Kuvempunagara.

Estimated Cost : Rs. 40.00 Lakhs

Head of Account : P-1878

Job Number 011-18-000046

Name of Agency: Executive Engineer, KRIDL

Work order No: BBMP/EE/BTP/186/2018-19 Dated: 11.12.2018

Measurements Recarded on :

Sl No	Description of item	No	L	B1	B2	Av. B	D	Qty	Unit / Rate	Amount
1	Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary** soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.								Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 1 & 2 is							**129.33**	199.36	**25783.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) complete as per specifications.								Sqm	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 3 is							**999.00**	80.56	**80479.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete as per specification								Sqm	
	3rd Cross Ganesh Layout W/S Balance	1	5.40				1.35	7.29		
		1	15.00				1.35	20.25		
		1	10.00				1.35	13.50		
	1st Main Road	1	6.00				1.35	8.10		
		1	8.00				1.35	10.80		
	2nd Main Road	1	15.00				1.35	20.25		
		1	10.00				1.35	13.50		
	N/S	1	12.00				1.35	16.20		
	S/S	1	9.00				1.35	12.15		
	Cross Road 1	1	10.00				1.35	13.50		
		1	15.00				1.35	20.25		
		1	12.00				1.35	16.20		
		1	22.00				1.35	29.70		
		1	15.00				1.35	20.25		
		1	25.00				1.35	33.75		
		1	30.00				1.35	40.50		
	Cross Road 2	1	25.00				1.35	33.75		
		1	10.00				1.35	13.50		
		1	12.00				1.35	16.20		
		1	15.00				1.35	20.25		
		1	11.40				1.35	15.39		
		1	12.00				1.35	16.20		
		1	5.40				1.35	7.29		
	Cross Road 3	1	11.10				1.35	14.99		

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Sl No	Description of item	No	L	B1	B2	Av. B	D	Qty	Unit / Rate	Amount
		1	23.00				1.35	31.05		
		1	8.80				1.35	11.88		
		1	27.50				1.35	37.13		
		1	19.80				1.35	26.73		
		1	6.00				1.35	8.10		
	Cross Road 4	1	12.60				1.35	17.01		
		1	8.00				1.35	10.80		
		1	5.00				1.35	6.75		
		1	15.00				1.35	20.25		
		1	18.00				1.35	24.30		
		1	22.00				1.35	29.70		
		1	9.00				1.35	12.15		
		1	9.10				1.35	12.29		
		1	7.70				1.35	10.40		
		1	12.60				1.35	17.01		
		1	10.00				1.35	13.50		
							Total Qty =	**722.79**		
							Qty Limited to =	**709.29**	665.68	**472160.00**
4	Providing and **Filling in foundation with granite / trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications.								Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 4 is							**99.90**	2240.84	**223860.00**
5	Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 5 is							**66.60**	5159.02	**343591.00**
6	Providing and constructing load bearing wall with solid concrete blocks of size **400x200x200 mm** having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications.								Sqm	
	Raising of BS Slab Drain									
	3rd Cross Ganesh Layout W/S Balance	2	17.00				0.60	20.40		
		2	6.60				0.60	7.92		
		2	9.00				0.60	10.80		
	1st Main Road	2	23.40				0.60	28.08		
		2	25.90				0.60	31.08		
	2nd Main Road	2	9.10				0.60	10.92		
		2	7.70				0.60	9.24		
	N/S	2	12.60				0.60	15.12		
	S/S	2	10.00				0.60	12.00		
	Cross Road 1	2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	3.00				0.60	3.60		

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Sl No	Description of item	No	L	B1	B2	Av. B	D	Qty	Unit / Rate	Amount
	Cross Road 2	2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	5.00				0.60	6.00		
	Cross Road 3	2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	6.00				0.60	7.20		
	Cross Road 4	2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	30.00				0.60	36.00		
		2	10.00				0.60	12.00		
							Total Qty =	**894.36**		
							Qty Limited to =	**888.00**	993.22	**881979.00**
7	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.								Cum	
	Bed Concrete									
	3rd Cross Ganesh Layout W/S Balance	1	17.00			0.45	0.10	0.77		
		1	6.60			0.45	0.10	0.30		
		1	9.00			0.45	0.10	0.41		
	1st Main Road	1	23.40			0.45	0.10	1.05		
		1	25.90			0.45	0.10	1.17		
	2nd Main Road	1	9.10			0.45	0.10	0.41		
		1	7.70			0.45	0.10	0.35		
	N/S	1	12.60			0.45	0.10	0.57		
	S/S	1	10.00			0.45	0.10	0.45		
	Cross Road 1	1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	3.00			0.45	0.10	0.14		
	Cross Road 2	1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	5.00			0.45	0.10	0.23		
	Cross Road 3	1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		

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Sl No	Description of item	No	L	B1	B2	Av. B	D	Qty	Unit / Rate	Amount
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	6.00			0.45	0.10	0.27		
	Cross Road 4	1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	30.00			0.45	0.10	1.35		
		1	10.00			0.45	0.10	0.45		
	Coping Concrete									
	3rd Cross Ganesh Layout W/S Balance	2	17.00			0.20	0.10	0.68		
		2	6.60			0.20	0.10	0.26		
		2	9.00			0.20	0.10	0.36		
	1st Main Road	2	23.40			0.20	0.10	0.94		
		2	25.90			0.20	0.10	1.04		
	2nd Main Road	2	9.10			0.20	0.10	0.36		
		2	7.70			0.20	0.10	0.31		
	N/S	2	12.60			0.20	0.10	0.50		
	S/S	2	10.00			0.20	0.10	0.40		
	Cross Road 1	2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	3.00			0.20	0.10	0.12		
	Cross Road 2	2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	5.00			0.20	0.10	0.20		
	Cross Road 3	2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	6.00			0.20	0.10	0.24		
	Cross Road 4	2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	30.00			0.20	0.10	1.20		
		2	10.00			0.20	0.10	0.40		
							Total Qty =	**63.35**		
							Qty Limited to =	**62.90**	5767.46	**362773.00**
8	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate								Sqm	
	RCC Drain Slab									
	3rd Cross Ganesh Layout W/S Balance	1	17.00			0.90		15.30		
		1	6.60			0.90		5.94		

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Sl No	Description of item	No	L	B1	B2	Av. B	D	Qty	Unit / Rate	Amount
		1	9.00			0.90		8.10		
	1st Main Road	1	23.40			0.90		21.06		
		1	25.90			0.90		23.31		
	2nd Main Road	1	9.10			0.90		8.19		
		1	7.70			0.90		6.93		
	N/S	1	12.60			0.90		11.34		
	S/S	1	10.00			0.90		9.00		
	Cross Road 1	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	3.00			0.90		2.70		
	Cross Road 2	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	5.00			0.90		4.50		
	Cross Road 3	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	6.00			0.90		5.40		
	Cross Road 4	1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	30.00			0.90		27.00		
		1	10.00			0.90		9.00		
							Total Qty =	**670.77**		
							Qty Limited to =	**666.00**	1820.56	**1212493.00**
	Sub Total									**3603118.00**
	KRIDL Charges @ 10%									**360312.00**
	Labour Cess Charges @ 1%									**36031.00**
									Total	**3999461.00**

Assistant Engineer
Ward No. 11

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Vidyaranyapura Sub Division

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